Residential Electrical Service Checklist

Address:						
OK	NG	N/A	#	Item**	NFPA 70-	2005 NEC*
				General	2005 Connecticut State E	_
			1-	Obtain electrical permits and utility approval	2003 IBC 105.0 or 2003 II	RC R105.0
				Service Drop		
			2-	Minimum conductor sizes (AWG).		310.15(B)6
				100 Amp. #4 copper or #2 aluminum		310.15(B)6
				200 Amp. #2/0 copper or #4/0 alumin		310.15(B)6
			3-	Minimum open conductor clearance from doors or window	vs is 3 feet	230.9
				Unless above a window		Exception
			4-	Minimum roof clearance is 8 feet	2	230.24(A)
				Reduction to 3 feet allowed for roof pitches \geq 4:1		Exception 2
			_	Reduction to 18 inches above overhangs (≤ 6 fee	et noriz. above overnang)	Exception 3
			5-	Minimum vertical ground clearance	folds law.	230.24(B)
				10 feet from grade or sidewalks to lowest point o	or arip loop	230.24(B)(1)
			•	12 feet from grade over residential driveways	aubiaat ta damaa	230.24(B)(2)
				Protect service entrance cables near driveways or where s		230.50(A)
				Cable wall support within 12 inches of terminations & not of	over 30 inch intervals	230.51(A)
				Aluminum connections require anti-oxidant Raintight service head or gooseneck required		110.3(B) 230.54
				Locate weatherhead or gooseneck above service-drop atta	tach point	230.54 230.54(C)
			10-	Where impracticable, locate within 24 inches of a		Exception
			11_	Formed drip loops and connections located below service	•	230.54(F)
	Grounding and Bonding				200.04(1)	
I			12-	Minimum grounding electrode conductor size (AWG)		250.66
				100 Amp - #6 unprotected or #8 copper in racew	ay or armor 250.64(B)	Table 250.66
				200 Amp - #4 copper to water pipe and #6 coppe	• , ,	Table 250.66
				Aluminum conductors not allowed in contact with		250.64(A)
			13-	Securely fasten and protect grounding electrode conducto		250.64(B)
				Grounding electrode conductor attached within 5 feet of w		250.52(A)(1)
			15-	Clean electrodes at the clamp connector to make a perma	anent, effective path	250.68(B)
			16-	Two 8 foot long ground rods at 6 feet minimum separation (1 rod if \leq 25 ohms)		250.56
				Eight feet of rod in ground contact, upper end flush with or below ground 250.53(250.53(G)
			17-	Ground rod clamps suitable for direct burial & connect only	y one conductor	250.70
				All grounding electrode conductors must be brought to the		250.24(C)
			19-	No grounding connections on the load side of service disc	conecting means	250.24(A)(5)
			20-	Main bonding jumper (strap or green screw) to service dis-	sconnect enclosure	250.28
				Bond both ends of metal raceways containing grounding e		250.64(E)
						250.68(B)
Service Panel						
				Workspace in front of panel 30w x 36d x 78h except repla		110.26
				Illumination of indoor working spaces about service equipr	•	110.26(D)
				Service disconnect limited to six switches or breakers at o		230.71(A)
				Service disconnect outside or inside at nearest point of en	-	230.70(A)
				· · · · · · · · · · · · · · · · · · ·		230.70(B)
						408.4
				Fuse or circuit-breaker panels prohibited in clothes closets		240.24(D)&(E)
				Circuit breakers are compatible with the panel as listed on		110.3(B) 110.12(A)
Com	men	te ·	J 1-	Unused openings in panels, raceways or boxes shall be pr	TOPETTY CIUSEU 400./ &	110.12(A)
Comments:						
Build	ing (Officia	al:	Date	e:	

^{*}The equivalent provisions of the 2003 International Residential Code, Chapter 35 may be used in place of NFPA 70.

^{**}This checklist does not include every code requirement, but most common issues.